

Cost-effective, secure switching with simplified management for your growing business

Growing businesses require cost-effective, networking solutions that can scale with everchanging business needs. The Linksys SLM248G4S Smart Switch with Resilient Clustering technology brings a whole new level of intelligence and security to the network infrastructure at a cost-effective price. It offers 48 10/100 Ethernet (copper) ports with four 10/100/1000 Gigabit Ethernet copper or optional optical (SFP) interfaces for uplinking the switch to the core network.

Network security is a top priority in any size business; unauthorized access to the network and mission critical data is a constant concern. The SLM248G4S is able to secure the network through 802.1X port authentication and MAC Filtering. 802.1X requires clients to authenticate themselves before they are given access to the network.

The SLM248G4S switches provide Resilient Clustering technology which enables several switches to be clustered together and managed as a single switch with one Web Management interface and one IP address. This technology allows up to 4 units of the SLM248G4S (or up to 192 ports when combined with SLM224G4S) to be set up in a switch cluster. SLM248G4S units can coexist in a switch cluster with other Linksys Smart Switches that support Resilient Clustering technology—SLM224G4PS, SLM224G4S, and SLM248G4PS.

Businesses are recognizing the benefits of Voice over IP (VoIP) technology and are quickly migrating their voice services to IP-based platforms, requiring their local area networks to support both voice and data applications. The SLM248G4S's extensive QoS features make the solution ideal for real-time applications like Voice and Video. The four priority queues together with Weighted Round Robin and Strict Priority scheduling techniques let network administrators quickly prioritize real-time voice and video traffic over data traffic. Individual users or applications can also be prioritized above others using various Class of Service options—by port, Layer 2 priority (802.1p), and Layer 3 priority (TOS or DSCP). Intelligent Broadcast, Multicast, and Unknown Unicast storm control minimizes and contains the effects that these types of storms have on regular traffic. IGMP Snooping limits bandwidth-intensive video traffic to only the requestors without flooding to all users. Incoming traffic can be policed and outgoing traffic can be shaped allowing network administrators to control network access and traffic flow.

The SLM248G4S also includes features for network expansion and faster throughput performance. Link aggregation enables network administrators to create multiple high-bandwidth trunks between switches. This provides a level of reliability because the system will continue to operate if one of the links breaks. Spanning Tree (STP) allows administrators to avoid network loops and to build a mesh of switches to increase the availability of their network.

The simplified user interface provides an intuitive, secure management platform enabling administrators to better utilize the extensive feature set of the switch, resulting in a better optimized, more secure network.

Easy-to-use Web browser interface makes installation quick and effortless Grow your network with options like Resilient Clustering and Link Aggregation 802.1X port authentication and MAC address filtering brings network security down to the switch port level Advanced QoS enables the network to be optimized for your networked applications, including voice, video and data storage

48-Port 10/100 + 4-Port Gigabit Smart Switch with Resilient Clustering Technology



PRODUCT DATA

BUSINESS SERIES

Model: SLM248G4S

Features

- 48 10/100 Switched RJ-45 ports deliver up to 9.6 Gbps of throughput
- 2 shared 10/100/1000 mini-GBIC ports
- Switching Capacity delivers wire-speed performance at 17.6 Gbps non-blocking capacity
- WebView monitoring allows administrators to view the current status and configuration using their favorite web browser
- Auto MDI/MDIX per port allows for automatic Cable detection
- Port-based and 802.1qbased VLANs support up to 128 VLANs
- Port configuration settings for Link, Speed, Auto MDI/ MDIX, Flow Control, and more
- Fully rack-mountable using the included rack mounting hardware
- MAC Address table supports up to 8K MAC Address entries
- Optimal platform to support real-time applications, such as voice and video, by providing features like IGMP snooping, multiple queues (4) with appropriate scheduling techniques, prioritization of traffic based on port, 802.1p, IP TOS/ precedence/DSCP, and line rate forwarding mechanisms

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48-Port 10/100 + 4-Port Gigabit Smart Switch with Resilient Clustering Technology

Specifications

Model SLM248G4S

Ports 48 RJ-45 Connectors for 10BASE-T/100BASE-TX,

4 RJ-45 Connectors for 10BASE-T/100BASE-TX/1000BASE-T with

2 Shared SFP Slots and 2 Gigabit Ports

Buttons None

Cabling Type UTP CAT 5 or better for 10BASE-T/100BASE-TX,

UTP CAT 5e or better for 1000BASE-T

LEDs Power, Link/Act, Speed

Performance

Switching Capacity 17.6 Gbps, Non-blocking

MAC Table Size 8K Number of VLANs 128

Switch Clustering

Switch Cluster Operation Maximum Switch Cluster Size: 192 Ports

Maximum no. of Units in Switch Cluster: 6 (with SLM224G4S)

Hot Insertion and Removal Ring and Chain Options

Master and Backup Master for Resilient Cluster Control

Auto-numbering or Manual Configuration of Units in Switch Cluster

Management

Web User Interface Built-in Web UI for easy browser-based configuration (HTTP)

SNMP SNMP version 1, 2c, 3

SNMP MIBs RFC1213 MIB-2, RFC2863 Interface MIB, RFC2665 Ether-like MIB,

RFC1493 Bridge MIB, RFC2674 Extended Bridge MIB (P-bridge, Q-bridge),

RFC2819 RMON MIB (groups 1, 2, 3, 9 only), RFC2737 Entity MIB,

RFC 2618 RADIUS Client MIB

RMON Embedded Remote Monitoring (RMON) software agent supports four

RMON groups (history, statistics, alarms, and events) for enhanced traffic

management, monitoring, and analysis

Firmware Upgrade Web Browser Upgrade (HTTP)

TFTP Upgrade

Port Mirroring Traffic on a port can be mirrored to another port for analysis with a

network analyzer or RMON probe

Other Management Switch Audit Log

DHCP Client BootP SNTP

Xmodem Upgrade Cable Diagnostics Port Mirroring PING

Security Features

Access Control ToS/DSCP

Availability

Link Aggregation Link Aggregation Using IEEE 802.3ad LACP

Up to 8 Ports in Up to 8 Trunks

Storm Control Broadcast and Multicast

Spanning Tree IEEE 802.1d Spanning Tree, Fast Linkover

IGMP Snooping IGMP (v1/v2) Snooping provides for fast client joins and leaves of multicast

streams and limits bandwidth-intensive video traffic to only the requestors

QoS

Priority Levels 4 Hardware Queues

Scheduling Priority Queueing and Weighted Round Robin (WRR)

Class of Service Port-based

802.1p VLAN Priority-based IPv4 IP Precedence/ToS/DSCP

Features (continued)

- Enhanced QoS functions including rate limiting for ingress/egress and per flow at 64kbps granularity
- HTTP interface
- User/Network security via 802.1x (with Radius authentication) and MACbased filtering
- Containment of storms— Broadcast and Multicast
- Expandability and availability increased across multiple switches using Link Aggregation
- Port Trunking for up to 8 groups with up to 8 ports per group allows you to increase your bandwidth for each uplink or Server connection
- SNMP and RMON management expand your visibility options

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LINKSYS®
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Layer 2

VLAN Port-based and 802.1q-based VLANs

Management VLAN

HOL Blocking Head of Line Blocking Prevention

Jumbo Frame Supports Frame size up to 10Kbytes

Standards

802.3 10BASE-T Ethernet,

802.3u 100BASE-TX Fast Ethernet, 802.3ab 1000BASE-T Gigabit Ethernet,

802.3z Gigabit Ethernet, 802.3x Flow Control

Environmental

Dimensions (W x H x D) 17.32" x 1.75" x 13.81" (440 x 44.45 x 350.8 mm)

Weight 8.77 lb (3.98 kg)
Power 100-240V 0.5A

Certification FCC Part 15 Class A, CE Class A, UL CSA (CSA22.2), CE mark, CB

Operating Temp. 32 to 104°F (0 to 40°C)

Storage Temp. -4 to 158°F (-20 to 70°C)

Operating Humidity 20 to 95%, Noncondensing

Storage Humidity 5 to 90%, Noncondensing

Package Contents

- One SLM248G4S Switch
- · One AC Power Cord
- · One Rack Mounting Kit with Brackets and Hardware
- One CD with User Guide in PDF Format
- One Online Registration Card
- Console Cable

Minimum Requirements

- Web-based Utility: Web Browser—Microsoft Internet Explorer (version 5.5 or above)
- Cat5 Ethernet Network Cable

Check the product package and contents for specific features supported. Specifications are subject to change without notice.



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7110210B-AI Model: **SLM248G4S**